Journal of Luminescence 37 (1987) 339–341
North-Holland, Amsterdam

AUTHOR INDEX

Aaviksoo, J., A. Freiberg, J. Lippmaa and T. Reinot, Picosecond spectroscopy of polaritons in anthracene crystals. II. Luminescence 37 (1987) 313
Agüero, G., see Da Silva, L. 37 (1987) 51
Assmus, W., see Kunz, M. 37 (1987) 123
Avarmaa, R., see Renge, I. 37 (1987) 207

Barrie, J.D., B. Dunn, O.M. Stafsudd and P. Nelson, Luminescence of Cu^{+}–β"-alumina 37 (1987) 303
Bates, J.B., see Powell, R.C. 37 (1987) 1
Baumann, W., E. Spohr, H. Bischof and W. Liptay, A study on excited states dipole moments of 9,9'-bianthryl 37 (1987) 227
Bazhin, N.M., N.P. Gritsan, V.V. Korolev and S.V. Camyshan, Oxygen quenching of phenanthrene fluorescence and phosphorescence in low temperature alcohol glasses 37 (1987) 87
Biedermann, J., M. Wallfahrer and G.Gliemann, Magnetic-field and temperature effects on the optical properties of dicyano-2,2'-bipyridyl-platinum(II) single crystals 37 (1987) 323
Binnie, N.E., T.L. Collier, L.V. Haley, T.A. Mattioli, D.L. Thibodeau, W. Wang and J.A. Koningstein, Electronic origins of aggregates of chlorophyll *a* as determined from Raman excitation profiles and resonant two-photon spectroscopy 37 (1987) 39
Bischof, H., see Baumann, W. 37 (1987) 227
Bissieux, C., see Jouart, J.P. 37 (1987) 159
Bitit, N., see Desvergne, J.P. 37 (1987) 175
Blasse, G., see Buijs, M. 37 (1987) 9
Bouas-Laurent, H., see Desvergne, J.P. 37 (1987) 175
Bowen, J.M., see Suchocki, A.B. 37 (1987) 29
Brightwell, J.W., see Ray, B. 37 (1987) 133
Buijs, M., A. Meyerink and G. Blasse, Energy transfer between Eu^{3+} ions in a lattice with two different crystallographic sites: Y_2O_3:Eu^{3+},Gd_2O_3:Eu^{3+} and Eu_2O_3 37 (1987) 9

Cáceres, E., see Da Silva, L. 37 (1987) 51
Camyshan, S.V., see Bazhin, N.M. 37 (1987) 87
Castellan, A., see Desvergne, J.P. 37 (1987) 175
Chaminade, J.P., see Joubert, M.F. 37 (1987) 239
Collier, T.L., see Binnie, N.E. 37 (1987) 39

Da Silva, L., G. Agüero, M. Lagos and E. Cáceres, Structure in the temperature dependence of the lifetime of the excited F-center in KCl 37 (1987) 51
De Leeuw, D.M., see Klaassen, D.B.M. 37 (1987) 21
Desvergne, J.P., N. Bitit, A. Castellan, H. Bouas-Laurent and J.C. Soulignac, Kinetic and thermodynamic studies on new intramolecular mixed excimers in anthracene–phenanthrene and anthracene–pyrene linked systems 37 (1987) 175
Druzhinin, S.I., see Knyazhanski, M.I. 37 (1987) 215
Dunn, B., see Barrie, J.D. 37 (1987) 303

Eppenga, R., see Schuurmans, M.F.H. 37 (1987) 269

Feigelman, V.M., see Knyazhanski, M.I. 37 (1987) 215
Fischer, R., see Shevel, S. 37 (1987) 45
Freiberg, A., see Aaviksoo, J. 37 (1987) 313

Gartstein, Yu.N. and A.A. Zakhidov, Charge-transfer excitons in mixed-stack donor–acceptor compounds: a variety of solitonic states 37 (1987) 275
Gilliland, G.D., see Suchocki, A.B. 37 (1987) 29
Gliemann, G., see Biedermann, J. 37 (1987) 323
Göbel, E.O., see Shevel, S. 37 (1987) 45
Gritsan, N.P., see Bazhin, N.M. 37 (1987) 87

Haanstra, J.H., see Krol, D.M. 37 (1987) 293
Haley, L.V., see Binnie, N.E. 37 (1987) 39
Ham, F.S., The dynamical Jahn–Teller effect in localized systems (*Book review*) 37 (1987) 109
Haug, H., see Müller, J.F. 37 (1987) 97
Hsu, D. and J.L. Skinner, General quantum mechanical theory of pure dephasing 37 (1987) 331

Jacquier, B., see Joubert, M.F. 37 (1987) 239
Jarzęba, W., see Mac, M. 37 (1987) 139
Johnson, E.J., Optical orientation (*Book review*) 37 (1987) 235
Jouart, J.P., C. Bissieux and G. Mary, Site-selective laser spectroscopy of BaF_2:Eu^{3+} 37 (1987) 159
Joubert, M.F., B. Jacquier, C. Linarès, J.P. Chaminade and B.M Wanklyn, Electronic exchange interaction effect on the fluorescence properties of terbium magnetic insulators 37 (1987) 239

Klaassen, D.B.M., D.M. de Leeuw and T.

Welker, Degradation of phosphors under cathode-ray excitation 37 (1987) 21
Klingshirn, C., see Shevel, S. 37 (1987) 45
Klingshirn, C., see Kunz, M. 37 (1987) 123
Kmiecik, H.J. and M. Schreiber, Tunneling through the self-trapping barrier in rare gas solids 37 (1987) 191
Knyazhanski, M.I., V.M. Feigelman, Ya.R. Tymyanski, S.I. Druzhinin and B.M. Uzhinov, The influence of structural relaxation on the fluorescent properties of N-naphthyl-substituted pyridinium cations 37 (1987) 215
Köhler, G., see Rotkiewicz, K. 37 (1987) 219
Koningstein, J.A., see Binnie, N.E. 37 (1987) 39
Korolev, V.V., see Bazhin, N.M. 37 (1987) 87
Kossanyi, J., see Tripathi, S. 37 (1987) 149
Kretschmann, H., see Kunz, M. 37 (1987) 123
Krol, D.M., R.P. van Stapele, J.H. Haanstra, T.J.A. Popma, G.E. Thomas and A.T. Vink, Luminescence and absorption of Tb^{3+} in $MO \cdot Al_2O_3 \cdot B_2O_3 \cdot Tb_2O_3$ glasses 37 (1987) 293
Kunz, M., H. Kretschmann, W. Assmus and C. Klingshirn, Absorption and emission spectra of yttria-stabilized zirconia and magnesium oxide 37 (1987) 123
Kuśba, J., Long-Range energy transfer in the case of material diffusion 37 (1987) 287

Lagos, M., see Da Silva, L. 37 (1987) 51
Leupacher, W., see Penzkofer, A. 37 (1987) 61
Linarès, C., see Joubert, M.F. 37 (1987) 239
Lippmaa, J., see Aaviksoo, J. 37 (1987) 313
Liptay, W., see Baumann, W. 37 (1987) 227
Lohmeier, F.J., Temperature dependence of the $^3B_1$ luminescence of AsO_2^- centers in alkali halides 37 (1987) 167

M Wanklyn, B., see Joubert, M.F. 37 (1987) 239
Mac, M., W. Jarzęba and J. Najbar, Fluorescence quenching of phenanthrene and chrysene by potassium iodide in methanol–ethanol solutions 37 (1987) 139
Mary, G., see Jouart, J.P. 37 (1987) 159
Mattioli, T.A., see Binnie, N.E. 37 (1987) 39
Mauring, K., see Renge, I. 37 (1987) 207
McCall, S.L., Controlling light with light (*Book review*) 37 (1987) 115
Menzel, R., see Swiatkowski, G. 37 (1987) 183
Meyerink, A., see Buijs, M. 37 (1987) 9
Müller, J.F. and H. Haug, Lineshape theory of the plasmon–phonon sidebands of a semiconductor plasma gain spectrum 37 (1987) 97

Najbar, J. and A.M. Turek, On the intersystem crossing quantum yield determination using external perturbers (*Short communication*) 37 (1987) 57
Najbar, J., Kinetics of the excited states of aromatic molecules in the presence of heavy atoms in rigid solutions 37 (1987) 73
Najbar, J., see Mac, M. 37 (1987) 139
Nelson, P., see Barrie, J.D. 37 (1987) 303
Noll, G., see Shevel, S. 37 (1987) 45

Osad'ko, I.S. and A.A. Shtygashev, Theoretical aspects of optical dephasing in polymers and glasses 37 (1987) 255

Penzkofer, A. and W. Leupacher, Fluorescence behaviour of highly concentrated rhodamine 6G solutions 37 (1987) 61
Popma, T.J.A., see Krol, D.M. 37 (1987) 293
Powell, R.C., G.E. Venikouas, L. Xi and J.B. Bates, Optical spectroscopy of Cr^{3+} and Rh^{2+} in sodium-beta"-alumina 37 (1987) 1
Powell, R.C., see Suchocki, A.B. 37 (1987) 29

Rapp, W., see Swiatkowski, G. 37 (1987) 183
Rashba, E.I. and E.Ya. Sherman, Dynamical model of desorption on rare gas solids stimulated by exciton self-trapping (*Short communication*) 37 (1987) 105
Ray, B., J.W. Brightwell and P. Sephton, Red emitting centre in $Ag_{1-x}Cu_xI$ 37 (1987) 133
Reinot, T., see Aaviksoo, J. 37 (1987) 313
Renge, I., K. Mauring and R. Avarmaa, Site-selection optical spectra of bacteriochlorophyll and bacteriopheophytin in frozen solutions 37 (1987) 207
Rompa, H.W.A.M., see Schuurmans, M.F.H. 37 (1987) 269
Rotkiewicz, K. and G. Köhler, Intramolecular excited state charge transfer and fluorescence decay of p-cyano-N,N-dimethylaniline in mixed hydrocarbon/halocarbon solvents 37 (1987) 219

Schreiber, M., see Kmiecik, H.J. 37 (1987) 191
Schuurmans, M.F.H., H.W.A.M. Rompa and R. Eppenga, Possibility of green light emission from GaP/AlP (001) superlattices 37 (1987) 269
Seelert, W. and E. Strauss, Photocaloric spectroscopy of the excited state absorption and of the fluorescence quantum efficiency in fluorescent material (*Erratum*) 37 (1987) 237
Sephton, P., see Ray, B. 37 (1987) 133
Sherman, E.Ya., see Rashba, E.I. 37 (1987) 105
Shevel, S., R. Fischer, E.O. Göbel, G. Noll, P. Thomas and C. Klingshirn, Picosecond luminescence of excitons localized by disorder in CdS_xSe_{1-x} 37 (1987) 45
Shtygashev, A.A., see Osad'ko, I.S. 37 (1987) 255

Skinner, J.L., see Hsu, D. 37 (1987) 331
Soulignac, J.C., see Desvergne, J.P. 37 (1987) 175
Spohr, E., see Baumann, W. 37 (1987) 227
Stafsudd, O.M., see Barrie, J.D. 37 (1987) 303
Strauss, E., see Seelert, W. 37 (1987) 237
Suchocki, A.B., G.D. Gilliland, R.C. Powell, J.M. Bowen and J.C. Walling, Spectroscopic properties of alexandrite crystals II 37 (1987) 29
Swiatkowski, G., R. Menzel and W. Rapp, Hindrance of the rotational relaxation in the excited singlet state of biphenyl and para-terphenyl in cooled solutions by methyl substituents 37 (1987) 183

Thibodeau, D.L., see Binnie, N.E. 37 (1987) 39
Thomas, G.E., see Krol, D.M. 37 (1987) 293
Thomas, P., see Shevel, S. 37 (1987) 45
Tissue, B.M. and J.C. Wright, Observation of sharp-line lanthanide fluorescence in high temperature superconductors 37 (1987) 117
Toscano, V., see Tripathi, S. 37 (1987) 149
Tripathi, S., V. Wintgens, P. Vallat, V. Toscano and J. Kossanyi, Laser effect of a series of variously substituted pyrylium and thiopyrylium salts 37 (1987) 149
Turek, A.M., see Najbar, J. 37 (1987) 57
Tymyanski, Ya.R., see Knyazhanski, M.I. 37 (1987) 215

Uzhinov, B.M., see Knyazhanski, M.I. 37 (1987) 215

Vallat, P., see Tripathi, S. 37 (1987) 149
Van Stapele, R.P., see Krol, D.M. 37 (1987) 293
Venikouas, G.E., see Powell, R.C. 37 (1987) 1
Vink, A.T., see Krol, D.M. 37 (1987) 293

Wallfahrer, M., see Biedermann, J. 37 (1987) 323
Walling, J.C., see Suchocki, A.B. 37 (1987) 29
Wang, W., see Binnie, N.E. 37 (1987) 39
Welker, T., see Klaassen, D.B.M. 37 (1987) 21
Wintgens, V., see Tripathi, S. 37 (1987) 149
Wright, J.C., see Tissue, B.M. 37 (1987) 117

Xi, L., see Powell, R.C. 37 (1987) 1

Zakhidov, A.A., see Gartstein, Yu.N. 37 (1987) 275

Journal of Luminescence 37 (1987) 343
North-Holland, Amsterdam

SUBJECT INDEX

Charge transfer 219
Charge-transfer excitons 275

Defect center 133
Desorption 105
Diffusion 287
Donor–acceptor compounds 275

Energy transfer 9, 287
Exchange interaction 239
Excimers 175
Excited F-center 51
Excited state absorption 237
Excited state dipole moments 227
Exciton self-trapping 105
Excitons, localized 45

Fluorescence quenching 139

Glasses 87, 255, 293

Heavy atoms in aromatics 73
High temperature superconductors 117

Intersystem crossing 57

Jahn–Teller effect 109

Magnetic-field effects 323
Molecular centers 167

Optical bistability 115
Optical dephasing 255
Optical dephasing theory 331
Optical orientation 235
Oxygen quenching 87

Phosphor degradation 21
Plasmon–phonon sidebands 97
Polaritons 313
Polymers 255

Raman excitation profiles 39
Resonant two-photon spectroscopy 39
Rotational relaxation 183

Self-trapping 191
Site-selective spectroscopy 117, 159, 207
Solitonic states 275
Structural relaxation 215
Superionics 1
Superlattices 269

Journal of Luminescence 37 (1987) 345
North-Holland, Amsterdam

MATERIALS INDEX

$Ag_{1-x}Cu_xI$ 133
Alexandrite 29
Alkali halides 167
$Al_2O_3 \cdot B_2O_3 \cdot Tb_2O_3$ glasses 293
Anthracene 175, 313
AsO_2 167

$BaF_2:Eu^{3+}$ 159
Bianthryl 227
Biphenyl 183

CdS_xSe_{1-x} 45
Chlorophyll *a* 39
Chrysene 139
Cr^{3+} 1
Cu^+-β"-alumina 303

Dicyano-2,2'-bipyridyl-platinum 323

Eu_2O_3 9

GaP/AlP 269
$Gd_2O_3:Eu^{3+}$ 9

KCl 51

Magnesium oxide 123

Na:β"Al_2O_3 1
Naphthyl-substituted pyridinium 215

p-cyano-N,N-dimethylaniline 219
Paraterphenyl 183
Phenanthrene 87, 139, 175
Potassium iodide 139
Pyrene 175
Pyrylium 149

Rare gas solids 105, 191
Rh^{2+} 1
Rhodamine 6G 61

Tb^{3+} 293
Terbium 239
Thiopyrylium 149

$Y_2O_3:Eu^{3+}$ 9
Yttria 123

Zirconia 123